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APPLICATION NO.	F	ILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO
10/820,748		04/09/2004	Je-hyoung Ryu	1572.1243	8797
21171	7590	05/10/2005		EXAM	INER
STAAS &	HALSEY	/ LLP	NGUYEN, VINH P		
SUITE 700 1201 NEW	YORK AV	VENUE, N.W.	ART UNIT	PAPER NUMBER	
WASHINGTON, DC 20005				2829	
				DATE MAILED: 05/10/2009	5

Please find below and/or attached an Office communication concerning this application or proceeding.

<u> </u>	Application No.	Applicant(s)					
	10/820,748	RYU ET AL.					
Office Action Summary	Examiner	Art Unit					
•	VINH P. NGUYEN	2829					
The MAILING DATE of this communication	tion appears on the cover sheet wi	ith the correspondence address					
Period for Reply							
A SHORTENED STATUTORY PERIOD FOR THE MAILING DATE OF THIS COMMUNICA - Extensions of time may be available under the provisions of 3 after SIX (6) MONTHS from the mailing date of this communic - If the period for reply specified above is less than thirty (30) de - If NO period for reply is specified above, the maximum statuto - Failure to reply within the set or extended period for reply will, Any reply received by the Office later than three months after earned patent term adjustment. See 37 CFR 1.704(b).	ATION. 7 CFR 1.136(a). In no event, however, may a reation. ays, a reply within the statutory minimum of third by period will apply and will expire SIX (6) MON by statute, cause the application to become AB	eply be timely filed by (30) days will be considered timely. ITHS from the mailing date of this communication. BANDONED (35 U.S.C. § 133).					
Status							
1) Responsive to communication(s) filed of	on <i>09 April 2004</i> .	•					
•	☐ This action is non-final.						
3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is							
closed in accordance with the practice	closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.						
Disposition of Claims		•					
4)⊠ Claim(s) <u>1-28</u> is/are pending in the application.							
	4a) Of the above claim(s) is/are withdrawn from consideration.						
5)⊠ Claim(s) <u>18-28</u> is/are allowed.							
6)⊠ Claim(s) <u>1,10 and 16</u> is/are rejected.	· · · ———						
7)⊠ Claim(s) <u>2-9,11-15 and 17</u> is/are object	ed to.						
8) Claim(s) are subject to restriction	n and/or election requirement.						
Application Papers							
9)☐ The specification is objected to by the E	xaminer.						
10) The drawing(s) filed on is/are: a)) accepted or b) objected to	by the Examiner.					
Applicant may not request that any objectio	n to the drawing(s) be held in abeyar	nce. See 37 CFR 1.85(a).					
Replacement drawing sheet(s) including the	e correction is required if the drawing	(s) is objected to. See 37 CFR 1.121(d).					
11)☐ The oath or declaration is objected to by	y the Examiner. Note the attached	d Office Action or form PTO-152.					
Priority under 35 U.S.C. § 119							
12)☐ Acknowledgment is made of a claim for	foreign priority under 35 U.S.C. §	§ 119(a)-(d) or (f).					
a) ☐ All b) ☐ Some * c) ☐ None of:							
1. Certified copies of the priority do	cuments have been received.						
2. Certified copies of the priority do	cuments have been received in A	pplication No					
Copies of the certified copies of t		received in this National Stage					
application from the International							
* See the attached detailed Office action for	or a list of the certified copies not	received.					
Attachment(s)	A) [] 1_4	Summany (RTO 413)					
1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 4) Interview Summary (PTO-413) Paper No(s)/Mail Date							
3) Information Disclosure Statement(s) (PTO-1449 or PTo-1449 Paper No(s)/Mail Date		nformal Patent Application (PTO-152)					

1. The title of the invention is not descriptive. A new title is required that is clearly indicative of the invention to which the claims are directed.

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- 2. The abstract of the disclosure is objected to because legal phraseology such as "the present invention" is used. Correction is required. See MPEP § 608.01(b).
- 3. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- 4. Claims 1,10 and 16 are rejected under 35 U.S.C. 102(b) as being anticipated by Flatley et al (Pat # 4,839,587).

As to claim 1, Flatley et al disclose a test fixture as shown in figure 2 having a match plate (48b), a contact module (42,44,52,54) with the match plate (48b) comprising a radiator (42)to radiate heat from the semiconductor device (14) to the outside and a tester (54) to press leads (24) of the semiconductor device (14) and a heat pipe (inner space (area at the bottom of the radiator (42)) in which air fluid flows into).

As to claim 10, the heat pipe of Flatley et al comprises an inner spacer ((area at the bottom of the heat radiator (42)) in which air flows into).

As to claim 16, it appears that the heat pipe ((area at the bottom of the heat radiator (42)) in which air flows into) has a high thermal conductivity in order to cool off the semiconductor device (14).

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5. Claims 2-9,11-15,17 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

The prior art does not disclose a detailed of a radiator comprises of a heat sink, a contact pusher, a heat flat pusher provided between the contact pusher and the heat sink, first and second elastic members for pressing the lead pusher, the material for the heat sink, heat flat pusher and contact pusher, heat pipe containing a working fluid sealed in a vacuum inner space and occupied from 10-50 percent of a volume of the inner space,

- 6. Claims 18-28 are allowable since the prior art does not disclose an apparatus for testing semiconductor devices having a detailed of a radiator comprises of a heat sink, a contact pusher, a heat flat pusher provided between the contact pusher, a match plate and a contact block.
- 7. It is noted that References AG and AH have not been properly cited on the PTO_1449, therefore, they have not been considered by Examiner.
- 8. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

Peterson et al (Pat # 4,951,740) disclose bellows heat pipe (19) connected to a heat sink (44) for thermal control of electronic components.

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Burton et al (Pat # 5,006,796) disclose temperature control instrument for electronic component under test.

9. Any inquiry concerning this communication or earlier communications from the examiner should be directed to VINH P. NGUYEN whose telephone number is 571-272-1964. The examiner can normally be reached on 6:30AM-4:00PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Nestor Ramirez can be reached on 571-272-2034. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

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05/06/05